

M phase

M phase

Orange Metaphase

Prophase

Prophase

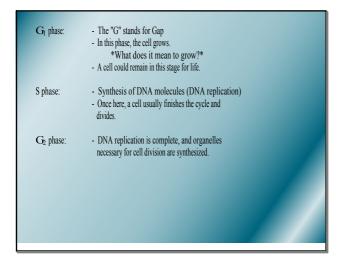
Prophase

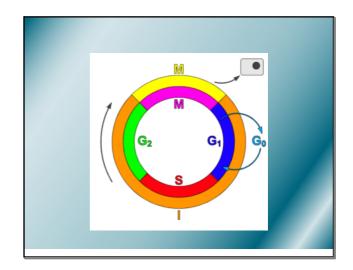
Anaphase

Anaphase

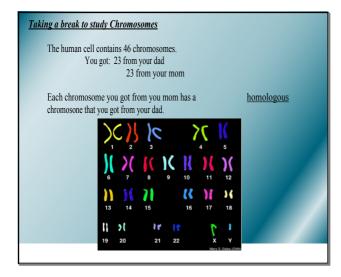
Prophase

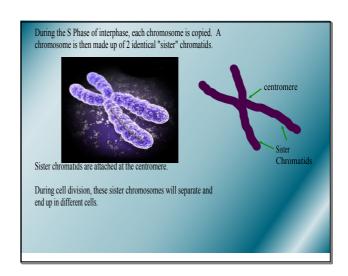
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Mitosis, or the M Phase, is the stage during which the cell actually divides and creates 2 daughter cells. See Figure 10 - 5, p. 246 Assignment: Read through pages 246 - 248 and make up a set of notes summarizing the stages of mitosis. Make sure you include and understand the following words: - Prophase, metaphase, anaphase, telophase - centrioles - spindle

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## ading the textbook with the intent to summarize / write notes - In a well-written textbook, the information is divided into sections seperated by section titles. - The first and last paragraphs of each section should summarize the information being provided in the section. - The first and last line of each paragraph should summarize the information being provided in the paragraph. - To make your notes: - identify key concepts - identify and define key terms (use glossary if needed). \*\*ASK FOR HELP AT ANY TIME\*\*\*

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Exercise:

The first and longest phase of mitosis, prophase, can take as much as 50-60 percent of the total time required to complete mitosis. During prophase, the chromosomes become visible. The centrioles (SEN-tree-ohlz), two tiny structures located in the cytoplasm near the nuclear envelope, seperate and take up positions on opposite sides of

The centrioles lie in a region called the centrosome that helps to organize the spindle, a fanlike microtubule structure that helps separate the chromosomes. During prophase, the condensed chromosomes becomes attached to fibers in the spindle at a point near the centromere of each chromatid. Interestingly, plant cells do not have centrioles, but still organize their mitotic spindles from similar regions.

Near the end of prophase, the chromosomes coil more tightly. In addition, the nucleolus disapears, and the nuclear envelope breaks

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## **Cytokinesis**

- Final step of cell division
- Division of the cytoplasm itself.
- In animals, the cell membrane is "pinched" towards the center, resulting in two equal sized cells with the same amount of cytoplasm.
- In plants, a cell plate forms between the 2 nuclei and serves as a division. It will eventually grow into a seperating membrane

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Assignment:		
Section 10-2 Cell Division		
Due:		
www.phschool.com	Web code cbp-3102 TB, page 247	
http://www.phschool.com/webcodes10/index.cfm?wcprefix=cbp&wcsuffix=3102 &fuseaction=home.gotoWebCode&x=0&y=0		